

Title (en)

METHODS AND SYSTEMS FOR REDUCING THE IMPACT OF A GENERATOR SHORT CIRCUIT IN A WIND TURBINE

Title (de)

VERFAHREN UND SYSTEME ZUR REDUZIERUNG DER AUSWIRKUNG EINES GENERATORKURZSCHLUSSES IN EINER WINDTURBINE

Title (fr)

PROCÉDÉS ET SYSTÈMES POUR RÉDUIRE L'IMPACT D'UN COURT-CIRCUIT DE GÉNÉRATEUR DANS UNE TURBINE ÉOLIENNE

Publication

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Application

EP 13798238 A 20131113

Priority

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- DK 2013050374 W 20131113

Abstract (en)

[origin: WO2014079453A2] A method is provided for reducing an impact of an unbalanced short circuit event that occurs in a polyphase permanent magnet generator of a wind turbine. According to the method, an unbalanced short circuit event is detected in the generator of the wind turbine, and, in response to detecting the unbalanced short circuit event, at least one phase of the generator is shorted at a switch-point between the generator and a converter of the wind turbine to create a balanced short circuit in the generator. By doing so, the torque response of the generator is altered to avoid high amplitude torque oscillations that would otherwise occur as a result of the unbalanced short circuit event.

IPC 8 full level

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